AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

- 1. (Previously Presented) A protein-based film comprising a protein network formed by disulfide bonds between modified proteins having free sulfhydryl groups and unmodified proteins having disulfide bonds, wherein the network contains from about 2 to about 4 free sulfhydryl groups per protein.
- 2. (Previously Presented) A protein-based film of claim 1, wherein said film has been formed without heat treatment.
 - 3. (Cancelled).
- 4. (Previously Presented) The protein-based film of claim 1 wherein said modified protein comprises the soluble fraction of modified whey protein, the precipitate fraction of modified whey protein, or combinations thereof.
- 5. (Previously Presented) The protein-based film of claim 1 wherein said modified protein is prepared by contacting an unmodified protein having disulfide bonds with a sulfite ion forming agent selected from the group consisting of an alkali metal sulfite, an alkali earth metal sulfite, a hydrogen sulfite, a hydrogen metabisulfite, and combinations thereof.
 - 6. (Cancelled).
 - 7. (Cancelled).
 - 8. (Cancelled).

- 9. (Cancelled).
- 10. (Cancelled).
- 11. (Previously Presented) The protein-based film of claim 1 wherein said film has been formed on a substance selected from the group consisting of a food product, a tablet, a granule, a pellet, or a liposome containing therapeutically active agent.
 - 12. (Cancelled).
 - 13. (Cancelled).
- 14. (Previously Presented) The protein-based film of claim 1 wherein said film has been formed as a capsule shell.
- 15. (Previously Presented) The protein-based film of claim 1 wherein said film has been formed around lipid, oil, lipophilic compound or combinations thereof to form an emulsion or microcapsule.
- 16. (Previously Presented) A food product that has been coated with or contains substances coated with a film of claim 1.
 - 17. (Cancelled).
- 18. (Previously Presented) A pharmaceutical product containing at least one therapeutically active agent, characterized in that has been coated with a film of claim 1.
- 19. (Previously Presented) A container that has been coated with the film of claim 1.

20. (Previously Presented) Method for preparing a protein-based film comprising a protein network formed by disulfide bonds between the proteins, comprising

providing an amount of protein solution which contains unmodified proteins having disulfide bonds;

contacting the unmodified proteins with a sulfite ion forming agent to obtain a protein solution which contains unmodified proteins having disulfide bonds and modified proteins having free sulfhydryl groups, and

forming said protein-based film from said solution, wherein the solution has a pH of 7 or below and wherein the sulfite ion forming agent is selected from the group consisting of an alkali metal sulfite, an alkali earth metal sulfite, a hydrogen sulfite, a hydrogen metabisulfite, and combinations thereof.

- 21. (Previously Presented) The method of claim 20, comprising forming said film without heat treatment.
- 22. (Previously Presented) The method of claim 20 wherein the amount of the free sulfhydryl groups in the total protein of the solution before the interchange reaction is 0.5-60 μ mol/g protein.
 - 23. (Cancelled).
 - 24. (Cancelled).
- 25. (Previously Presented) The method of claim 20, wherein the amount of sulfite used is 0.01-0.06% (w/v).
- 26. (Previously Presented) The method of claim 20 wherein said modified protein comprises the soluble fraction of modified whey protein the precipitate fraction of modified whey protein, or combinations thereof.

- 27. (Cancelled).
- 28. (Cancelled).
- 29. (Cancelled).
- 30. (Previously Presented) The method of claim 20 including forming the film on a substance selected from the group consisting of a food product, a tablet, a granule, a pellet, or a liposome containing therapeutically active agent.
 - 31. (Cancelled).
 - 32. (Cancelled).
- 33. (Previously Presented) The method of claim 20 including forming the film as a capsule shell.
- 34. (Previously Presented) The method of claim 20 including forming the film around lipid, oil, lipophilic compound or combinations thereof to form an emulsion or microcapsule.